



PRODUCT DATA SHEET



SYNPRO 10W-40 ACEA E6, E7, E9

This is an Ultra high performance fully synthetic diesel engine lubricant scientifically formulated and blended to achieve the highest levels of engine protection from the latest available technology.

This Heavy Duty Ultra High Performance engine oil allows diesel engines to operate at their peak level and protects valuable engines for operators in severe operating conditions.

Suitable for use with Diesel Particulate Filters (DPF's) and Nitrous Oxide reduction systems in combination with low sulphur diesel fuel (max. 50 ppm).

Benefits associated with this type of technology include:

- Outstanding wear protection at start up
- Protection against bore polish
- Maximum fuel efficiency
- Higher power output
- Very low oil consumption due to low volatility
- Low temperature properties
- Minimizes engine emissions, meeting Euro I,II,III,IV & V emission standards
- Meets the Australian Motor Industry agreed phosphorous limits
- The ("low SAPS") requirements for ACEA 2012 E6,E7,E9 align with many OEM performance specifications

Note1: SAPS refers to Sulphated Ash, Phosphorus & Sulphur, the levels of which are often restricted in the latest performance specifications.

TECHNICAL SPECIFICATIONS

SAE	Viscosity 10W-40
ACEA 2012	E6,E7,E9-08 Issue 2
API	CI-4
Daimler	MB 228.51,226.9
MAN	M3477,M3271-1
MTU	Type 3.1
Volvo	VDS-3,CNG
RVI	RLD-2,RXD,RGD
Mack	EO-N,EO-M Plus
Cummins	CES 20076/77
Caterpillar	ECF-1-a
Deutz	DQC IV-10 LA
Scania	Low Ash
JASO	DH-2

PHYSICAL PROPERTIES

Density @ 15 °C ASTM D4052	0.8607
Viscosity @ 40°C ASTM D445	83.5 cSt Typical
Viscosity @ 100°C ASTM D445	13.8 cSt Typical
Viscosity Index ASTM D2270	175 Typical
CCS -25 °C	6340 cP
MRV -30 °C (ASTM D4684)	19,000 Cp
Gelation Index (ASTM D5133)	5.0
HTHS (CEC L-036-90)	4.1 cP
Noack Volatility (CEC L-040-93)	10.3%
Pour Point °C	-42 Maximum
Flash Point (COC) °C	200 Typical
Sulphated Ash ASTM D874	0.98
Phosphorus ASTM D5185	0.075
Sulphur ASTM D5185	<0.3
Zinc	0.084
Total Base Number ASTM D2896	10.0 mg/KOH/gm
Appearance	Clear & Bright

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